

Claims

1. Windshield wiper device (10), in particular for a motor vehicle, comprising at least one driving element (16) that can be fastened to the motor vehicle, at least two essentially elongate fastening elements (22, 48) which are disposed in an axially rigid manner and are able to engage in receptacles (24, 46) of the motor vehicle, and at least one damping element (28, 60) for damping mechanical vibrations, characterized in that the driving element (16) has a driven shaft (44) and the fastening elements (22, 48) are positioned such that the driving element (16) can be fastened by being rotated around the driven shaft (44) or an axis that runs essentially parallel thereto.
2. Windshield wiper device (10) according to Claim 1, characterized in that the fastening elements (22) are each arranged essentially on tangents of a circle around the driven shaft (44) or an axis that runs essentially parallel thereto.
3. Windshield wiper device (10) according to one of the preceding claims, characterized in that a locking element (30) is provided for fixing the driving element (16).

4. Windshield wiper device (10) according to Claim 3, characterized in that the locking element (30) is embodied as a receptacle for a rivet, a screw or a clip or is itself embodied as a clip.
5. Windshield wiper device (10) according to Claim 3, characterized in that the locking element (30) is embodied as a weld or an adhesive joint.
6. Windshield wiper device (10) according to the pre-characterizing clause of Claim 1, characterized in that the driving element (16) has at least one fastening location at which an adhesive (32) for adhering to the vehicle is applied, covered by protection (34).
7. Windshield wiper device (10) according to Claim 6, characterized in that a damping element (28) is arranged between the driving device (16) and the adhesive (32).
8. Windshield wiper device (10) according to one of Claims 6 or 9, characterized in that small quantities of the adhesive (32) are enclosed by protection (34), which automatically destroys itself during connection to the vehicle.
9. Windshield wiper device (10) according to one of Claims 6 through 8, characterized in that the protection (34) is embodied as a protective film, which can be detached before connection with the vehicle or can be destroyed during connection.
10. Windshield wiper device (10) according to one of Claims 6 through 10, characterized in that the adhesive (32) is embodied as a multi-component adhesive.

11. Windshield wiper device (10) according to the pre-characterizing clause of Claim 1, characterized in that the driving device (16) can be fastened to the vehicle by at least one rivet (38), wherein a damping element (28) is arranged between the rivet (38) and the vehicle, and said damping element is pressed against the fastening arm (20) and the receptacle (24) by the rivet (38).
12. Windshield wiper device (10) according to Claim 11, characterized in that the damping element (28) has at least one elastic, hollow cylindrical section (36), into which the rivet (38) can be inserted.
13. Windshield wiper device (10) according to Claim 12, characterized in that the rivet (38) has a cylindrical region (40), which has a thickening (42) at at least one location, which is used to lock the driving device (16).
14. Windshield wiper device (10) according to Claim 13, characterized in that the thickening (42) stresses the damping element (28).
15. Windshield wiper device (10) according to Claim 1, characterized in that the fastening element (48) is slid in a first assembly direction (52) running in the longitudinal direction of the driven shaft (44) into an assembly opening (46) of the body (26) that serves as a receptacle and can be locked in a second assembly direction (54) running in the circumferential direction of the rotation.

16. Windshield wiper device (10) according to Claim 15, characterized in that the fastening element (48) has a U-shaped cross-sectional profile, which is open in the second assembly direction (54), and into which a damping element (60) is inserted, which has a slot (62) that is also open towards the open side into which the edge of the assembly opening (46) can be slid.
17. Windshield wiper device (10) according to Claim 15 or 16, characterized in that the fastening element (48) has a guide surface (56), with which it can glide during assembly in the first assembly direction (52) along an edge of the assembly opening (46).
18. Windshield wiper device (10) according to one of Claims 15 through 17, characterized in that the fastening element (48) has a limit stop (58), which restricts the assembly movement in the first assembly direction.
19. Windshield wiper device (10) according to one of Claims 15 through 18, characterized in that assembly opening (46) is provided in a deep-drawn cavity (50) of the body (26).